

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P949536

Luminaire Tested: **GALN-SB4B-735-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949536  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4B-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

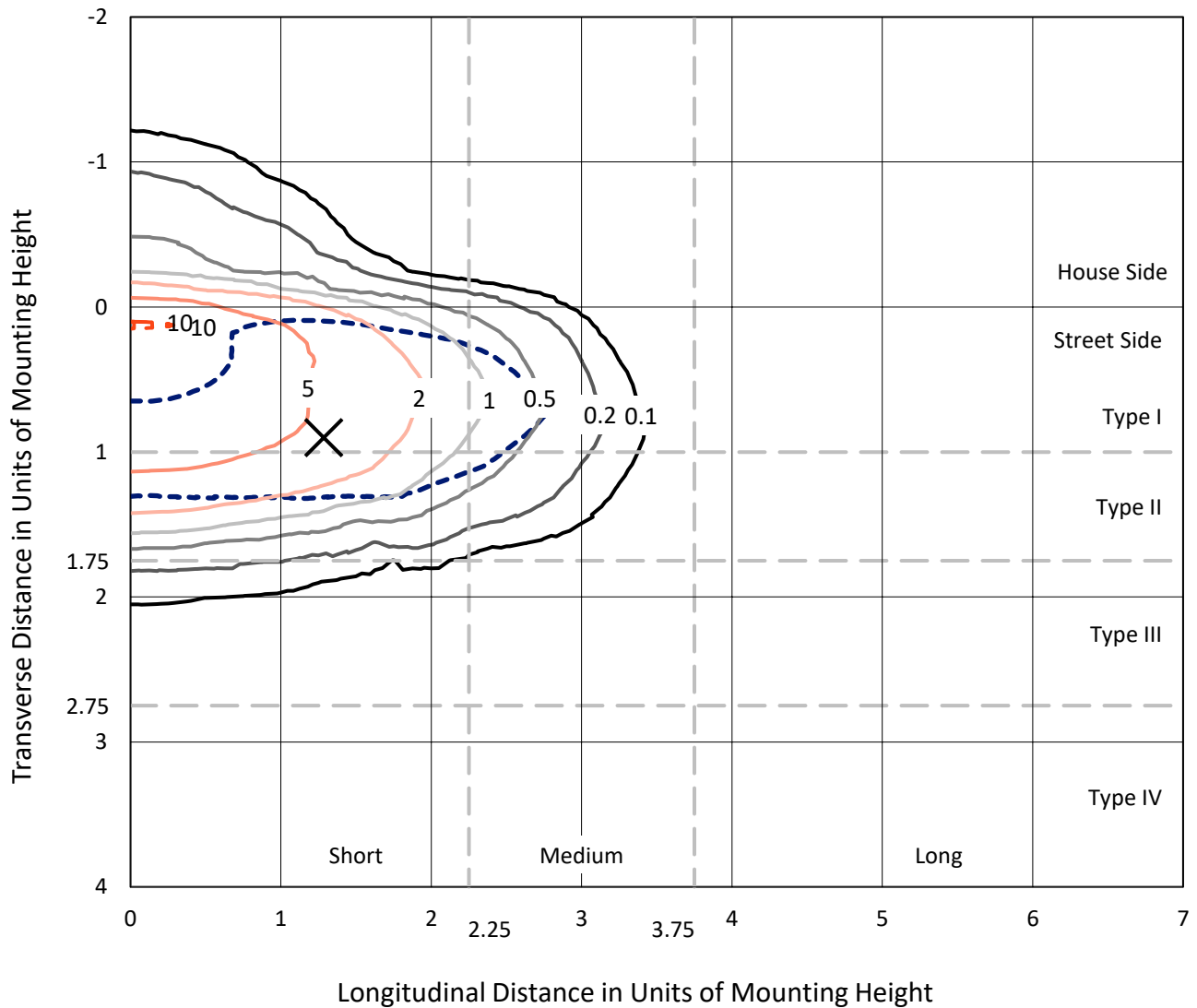
Lumens per Lamp: N/A  
Luminaire Lumens: 19242 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

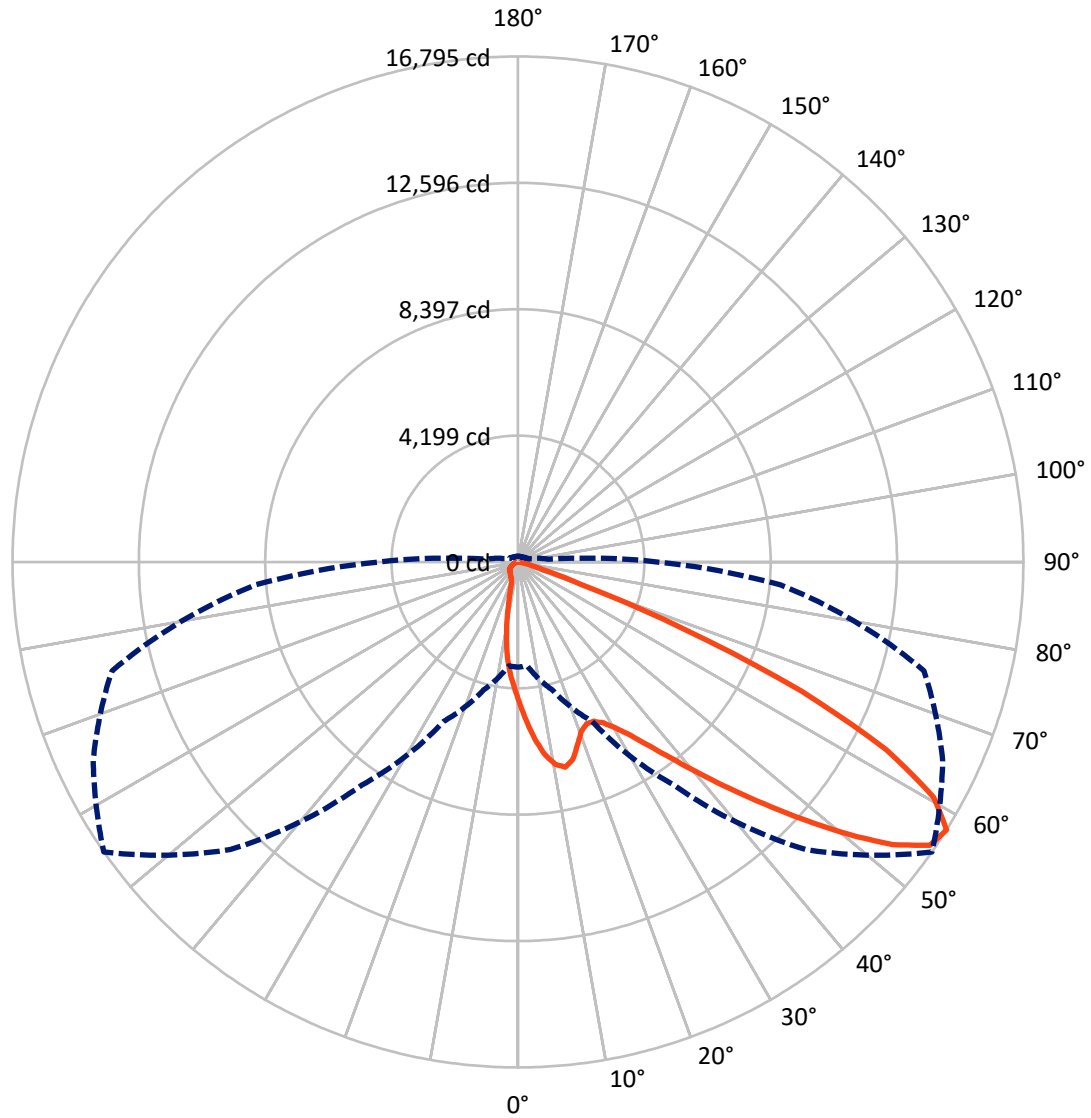
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1502.7	0.0	1502.7
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	17739.3	0.0	17739.3
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	19242.0	0.0	19242.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	431.4	2.2
10°-20°	1042.1	5.4
20°-30°	1667.4	8.7
30°-40°	2822.2	14.7
40°-50°	4633.4	24.1
50°-60°	5092.4	26.5
60°-70°	2921.0	15.2
70°-80°	596.9	3.1
80°-90°	35.2	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	19242.0	100.0
0°-180°	19242.0	100.0

**Coefficient of Utilization**



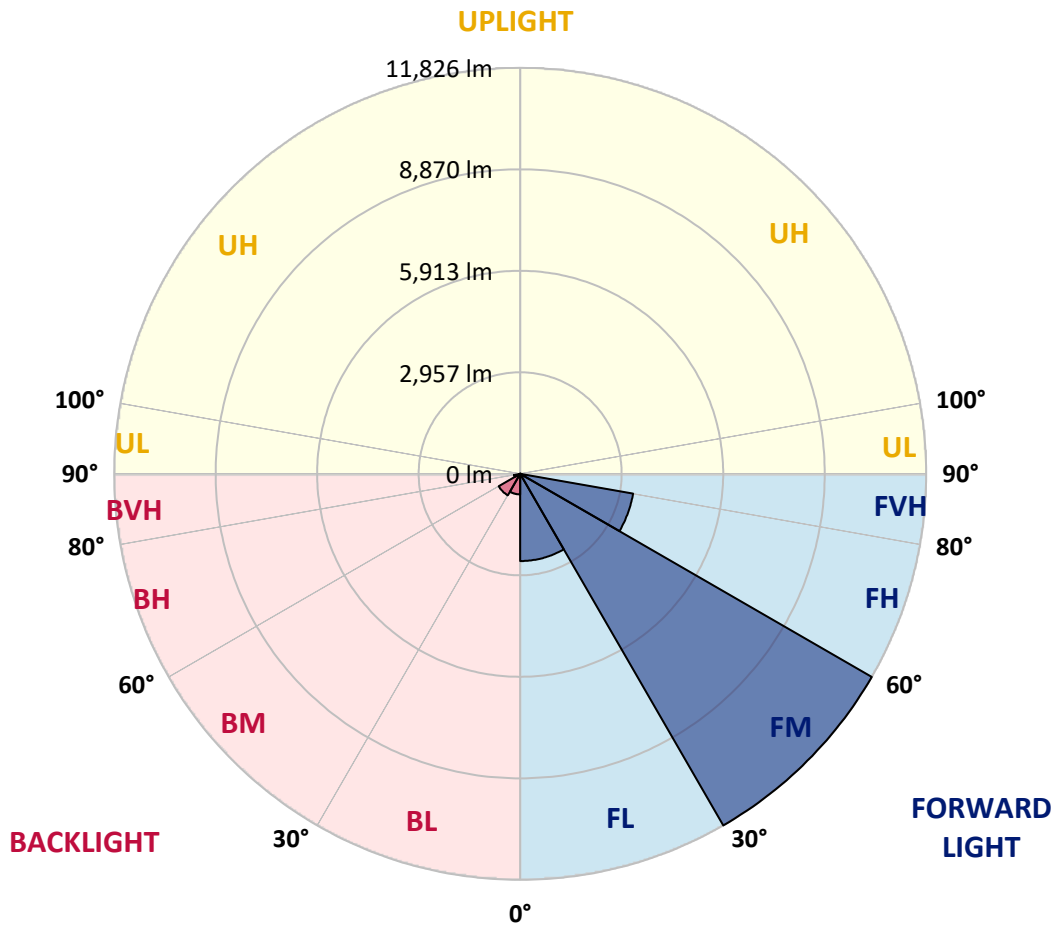
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2541.0	13.2			
FM (30°-60°)	11826.3	61.5			
FH (60°-80°)	3339.2	17.4			G2/5000
FVH (80°-90°)	32.8	0.2			G1/100
BL (0°-30°)	599.9	3.1	B2/1000		
BM (30°-60°)	721.7	3.8	B1/1000		
BH (60°-80°)	178.7	0.9	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8
2.5°	5753.3	5681.0	5670.3	5656.1	5518.4	5415.2	5265.7	5102.0	4918.0	4730.6
5°	6646.8	6589.8	6579.2	6512.7	6356.1	6180.5	5914.7	5578.9	5236.0	4832.6
7.5°	6820.0	6809.3	6858.0	6855.6	6834.2	6695.4	6471.2	6071.3	5556.4	4958.4
10°	6047.6	6074.9	6219.6	6346.6	6689.5	6888.8	6840.2	6510.3	5886.2	5102.0
12.5°	5344.0	5312.0	5415.2	5558.8	5957.4	6550.7	6993.2	6877.0	6263.5	5264.5
15°	4902.6	4889.6	4947.7	5014.2	5317.9	5915.9	6815.3	7174.8	6626.6	5456.7
17.5°	4761.4	4750.8	4768.5	4785.2	4982.1	5444.9	6391.7	7357.5	6974.3	5676.2
20°	4876.5	4862.3	4859.9	4846.9	4928.7	5244.3	6008.4	7370.5	7286.3	5875.6
22.5°	5212.3	5195.7	5137.6	5085.3	5092.5	5271.6	5837.6	7240.0	7521.2	6061.8
25°	5821.0	5793.7	5672.7	5497.1	5385.5	5461.5	5863.7	7068.0	7745.5	6207.8
27.5°	6582.7	6547.1	6391.7	6130.7	5875.6	5783.0	6052.3	6949.3	7931.8	6319.3
30°	7329.0	7282.7	7129.7	6926.8	6554.2	6262.4	6392.9	7001.5	8153.6	6435.6
32.5°	8134.7	8090.8	7887.9	7636.3	7327.8	6935.1	6859.2	7256.6	8425.3	6598.1
35°	9153.9	9085.0	8796.7	8453.8	8126.3	7728.9	7490.4	7696.8	8787.2	6846.1
37.5°	10314.3	10221.7	9910.8	9437.4	9010.3	8565.4	8259.2	8302.0	9317.6	7178.3
40°	11408.2	11324.0	11036.8	10590.7	10054.4	9514.6	9188.3	9093.3	10049.7	7582.9
42.5°	12064.3	11988.4	11867.4	11678.7	11226.7	10676.1	10264.4	10059.2	10915.8	8067.0
45°	12101.1	12034.7	12197.2	12416.7	12327.8	11961.1	11459.2	11083.1	11785.5	8521.5
47.5°	11512.6	11467.5	11961.1	12727.6	13109.7	13263.9	12801.2	12021.6	12503.4	8847.7
50°	9908.5	9891.9	10907.5	12314.7	13407.5	14405.3	14216.7	12894.9	13059.8	9016.2
52.5°	8591.5	8530.9	9123.0	10992.9	12974.4	15005.7	15600.1	13751.6	13449.0	9048.3
55°	6516.3	6462.9	7205.6	8781.3	11577.9	14792.1	16612.2	14635.5	13727.8	8966.4
57.5°	3495.4	3462.2	4400.7	5844.7	9050.6	13510.7	16794.9	15570.5	13962.7	8749.3
60°	1360.9	1355.0	1706.2	2835.7	5500.6	10991.7	15873.0	16131.7	14109.9	8482.3
62.5°	823.4	841.2	898.2	1273.1	2430.0	6828.3	13748.0	15493.3	14208.4	8237.9
65°	681.1	682.2	689.4	874.5	1164.0	2857.1	10349.9	13393.2	13965.1	7802.4
67.5°	583.8	594.4	621.7	694.1	821.1	1252.9	5958.6	10374.8	12485.6	6789.2
70°	460.4	474.6	509.0	570.7	633.6	784.3	2202.1	6903.1	9538.3	5117.4
72.5°	388.0	386.8	404.6	463.9	503.1	551.7	847.2	3868.0	5543.3	2443.0
75°	300.2	312.0	334.6	388.0	411.7	399.9	459.2	1413.1	1986.2	740.4
77.5°	234.9	244.4	264.6	316.8	340.5	283.6	264.6	505.4	638.3	265.8
80°	105.6	113.9	180.3	233.7	277.6	195.8	143.6	258.7	283.6	121.0
82.5°	19.0	32.0	105.6	123.4	142.4	127.0	74.7	134.1	138.8	48.6
85°	1.2	2.4	36.8	45.1	57.0	41.5	22.5	53.4	46.3	16.6
87.5°	0.0	0.0	0.0	1.2	1.2	5.9	7.1	9.5	7.1	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
4636.8	0°	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8
4647.5	2.5°	4562.1	4393.6	4229.9	4095.8	4017.5	3884.6	3796.8	3782.6	3745.8	3777.8
4659.4	5°	4474.3	4172.9	3868.0	3595.1	3370.9	3081.3	2865.4	2774.0	2694.5	2721.8
4690.2	7.5°	4432.8	3957.0	3482.4	3016.1	2536.7	2074.0	1729.9	1586.4	1477.2	1492.6
4724.6	10°	4377.0	3732.7	2988.8	2276.9	1635.0	1178.2	940.9	853.1	804.4	805.6
4775.7	12.5°	4334.3	3464.6	2415.7	1543.6	995.5	752.2	678.7	657.3	643.1	644.3
4852.8	15°	4312.9	3149.0	1849.8	1028.7	711.9	637.2	619.4	609.9	600.4	599.2
4938.2	17.5°	4277.3	2797.8	1353.8	751.1	622.9	596.8	581.4	570.7	558.8	556.5
5011.8	20°	4223.9	2399.1	989.5	634.8	583.8	563.6	542.2	528.0	513.8	511.4
5058.1	22.5°	4125.5	1977.9	760.5	587.3	555.3	532.7	506.6	490.0	475.8	473.4
5035.5	25°	3942.7	1582.8	640.7	557.7	530.4	503.1	474.6	452.1	439.0	436.6
4986.9	27.5°	3711.4	1243.5	581.4	530.4	498.3	473.4	441.4	420.0	408.2	405.8
4922.8	30°	3438.5	957.5	547.0	499.5	460.4	439.0	410.5	392.7	385.6	385.6
4877.7	32.5°	3144.2	765.3	532.7	468.7	427.1	403.4	380.9	373.7	371.4	370.2
4902.6	35°	2867.8	664.4	525.6	443.8	397.5	374.9	365.4	366.6	371.4	371.4
4979.7	37.5°	2622.2	632.4	522.1	426.0	371.4	351.2	357.1	367.8	363.1	363.1
5115.0	40°	2400.3	636.0	519.7	412.9	350.0	338.2	350.0	341.7	329.8	328.7
5279.9	42.5°	2230.6	665.6	514.9	402.2	337.0	328.7	323.9	310.9	309.7	312.0
5450.8	45°	2107.2	691.7	513.8	397.5	322.7	307.3	301.4	288.3	312.0	318.0
5520.8	47.5°	1961.3	691.7	513.8	380.9	299.0	293.1	283.6	269.3	293.1	299.0
5454.3	50°	1772.6	647.8	493.6	361.9	280.0	276.5	259.8	242.0	237.3	240.9
5298.9	52.5°	1534.1	568.3	442.6	335.8	261.0	253.9	233.7	220.7	217.1	217.1
5020.1	55°	1262.4	475.8	373.7	297.8	240.9	227.8	213.6	207.6	204.1	201.7
4629.7	57.5°	1026.3	390.4	300.2	264.6	221.9	205.3	200.5	193.4	187.5	183.9
4303.4	60°	842.4	307.3	248.0	234.9	202.9	187.5	186.3	176.8	161.4	159.0
4034.1	62.5°	650.2	225.4	208.8	204.1	183.9	170.9	168.5	149.5	125.8	121.0
3652.1	65°	459.2	175.6	168.5	179.2	163.7	151.9	145.9	117.5	92.5	89.0
3056.4	67.5°	322.7	147.1	132.9	156.6	142.4	127.0	123.4	99.7	77.1	74.7
2311.3	70°	230.2	119.8	109.2	134.1	113.9	111.5	104.4	83.1	62.9	60.5
1143.8	72.5°	162.6	91.4	84.2	116.3	78.3	96.1	85.4	64.1	47.5	45.1
389.2	75°	119.8	65.3	59.3	67.6	57.0	72.4	60.5	42.7	29.7	28.5
175.6	77.5°	87.8	41.5	35.6	33.2	33.2	45.1	33.2	17.8	13.1	11.9
89.0	80°	61.7	19.0	16.6	14.2	13.1	10.7	4.7	2.4	1.2	1.2
30.8	82.5°	36.8	8.3	8.3	5.9	3.6	0.0	0.0	0.0	0.0	0.0
11.9	85°	8.3	3.6	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0
4.7	87.5°	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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